

C-SAWS (V7.2) Critical Design

Review

15 February 2001



Purpose

- **Conduct a Working Level Critical Design Review (CDR)**
- **Brief FOC Requirements Based on IPT Evaluated Priorities**
- **Receive feedback from the user**

Agenda

- **PM IPT Overview and acquisition strategy**
- **Contracting and innovation plan**
- **Configuration Management/Software Development plan**
- **TEMP/Quality Assurance**
- **Issues**
- **Conclusion**

PMO's Vision

- **Empower each IPT**
- **Focus on learning the acquisition process**
- **Establish procedures to streamline the acquisition process**
- **Enhance the C-SAWS web site and assist understanding of software acquisition**
- **Be a focal point for software acquisition information**

PMO C-SAWS Project Overview

- **IOC Requirements**
 - Requirements definition & prioritization
 - Field a system with initial capabilities
 - Plot the direction for full capability (FOC)
- **FOC Requirements**
 - Enhance site use
 - Make the system easily maintainable

IOC Site Survey Results

Items Rated as 1 per Likert Scale

| <u>Item #</u> | <u>Req. Description</u> | <u>Comment</u> |
|---------------|-------------------------|--------------------|
| 1.9.3 | System Architecture | Doesn't make sense |
| 2.1 | Site is well designed | Need to streamline |

Items Rated as 2 per Likert Scale

| <u>Item #</u> | <u>Req. Description</u> | <u>Comment</u> |
|---------------|------------------------------------------------------------|----------------|
| 1.13 | Provide Mech. for Feedback importance | Explain |
| 1.17 | Include Links to Readings | None to STSC |
| 1.9 | Describe Course Project requirements of project and set-up | Describe |
| 2.2 | Top Level Page w/ Site Overview | AFU |
| 2.5 | Spelling and Grammar correct | Check and |

IOC Site Survey Results

Items Rated as 3 per Likert Scale

| <u>Item #</u> | <u>Req. Description</u> | |
|----------------------|--------------------------------|--|
|----------------------|--------------------------------|--|

| <u>Item #</u> | <u>Req. Description</u> | |
|----------------------|--------------------------------|--|
|----------------------|--------------------------------|--|

| | | |
|------------|---------------------------------------------|------------|
| 1.2 | Summarize Concepts of SA general | Too |
|------------|---------------------------------------------|------------|

| | | |
|------------|--------------------------------------------------|--|
| 1.3 | Discuss Importance of MN 3309 Verbose | |
|------------|--------------------------------------------------|--|

Acquisition Strategy & Plan

- **Apply IPPD principles**
- **Incremental build with continuous test and evaluation**
 - Execute P2I
- **Sole Source contract**
 - Alpha contracting method w/FFP contract
- **Risk plan**
- **Requirements**
- **Time constraints**
- **Emphasize reuse of existing elements where applicable**

Risk Management Plan

- **Overall Risk Level - High**
- **Cost & Schedule - High**
 - **Must further define PM generated requirements**
 - **Impacts program schedule**
- **Technical Development - Medium**
 - **Server Volatility**
 - **Limited Experience**
- **Performance - Low**
- **Management - Medium**
 - **Personnel turbulence**
 - **Coordination with our sister PMO**

MN3309 Software Management

IOC & EOC Schedule

Project

[illegible]

Critical Dates Review

- **Critical Design Review 15 Feb 01**
- **Initial Operating Capability 15 Feb 01**
- **Project Review 09 Mar 01**
- **Project Review 16 Mar 01**
- **Full Operating Capability 19 Mar 01**
- **FOC Program Review 22 Mar 01**

Path to FOC

- **Make the system easily maintainable**
- **Improve IOC capabilities**
- **Incorporate cost estimating models**
- **Develop transition package**
- **Manage cost, schedule, & performance**

FOC Functionality

- C-SAWS User Maintenance Module
- Post Deployment Software Support
- C-SAWS Training Module
- Add link to STSC

Current Status

- Documents exist on C-SAWS site
- Several documents need to be updated and expanded
- The majority of these documents are “placeholders”

C-SAWS Baseline Cost Estimate

A large orange oval with a black outline, centered on the slide.

Jim is working this one.

Contracting for IOC

- **Innovation Plan/Alpha Contracting**
 - **Sole Source**
 - **Streamlined Approach**
 - **Government and Contractor have collective voice via IPTs**
 - **PMO participates in all IPTs**
 - **Single Acquisition Management Plan (SAMP) vs. AP & AS**
 - **Incorporated AP & AS into one plan**

Contracting for FOC

- **Continue Alpha Contracting Technique**
- **Update RFP**
 - **Include Metrics**
 - **Objective and Threshold Values**
 - **Fixed Price with Economic Price Adjustment**
 - **Mature program**
 - **Mutual, high confidence levels in program requirements and contractor ability**

SW/CM Sub-IPT Responsibilities (1 of 2)

- **Control the C-Saws Configuration.**
- **Make all changes on the developmental site.**
 - **Create and Incorporate HTML files from IPTs.**
 - **Resolve site technical problems.**
 - **Add site value, improve organization and access.**
 - **Pass list of site improvements to QA IPT.**
- **Publish once approved**

SW/CM Sub-IPT Responsibilities (2 of 2)

- **Maintain Configuration Change Log.**
- **Review/Update Configuration Management Plan.**
- **Review/Update Software Management Plan.**
- **Attend all Project meetings, and Update group on progress and issues.**
- **Report Time by page to OIPT.**

SW/CM Sub-IPT Focus

- **Improve Site Navigation.**
- **Links to Readings: STSC, 5000.2**
- **Feedback mechanism**
- **Clarify System Architecture**
- **Reuse is key!**

CCB Membership

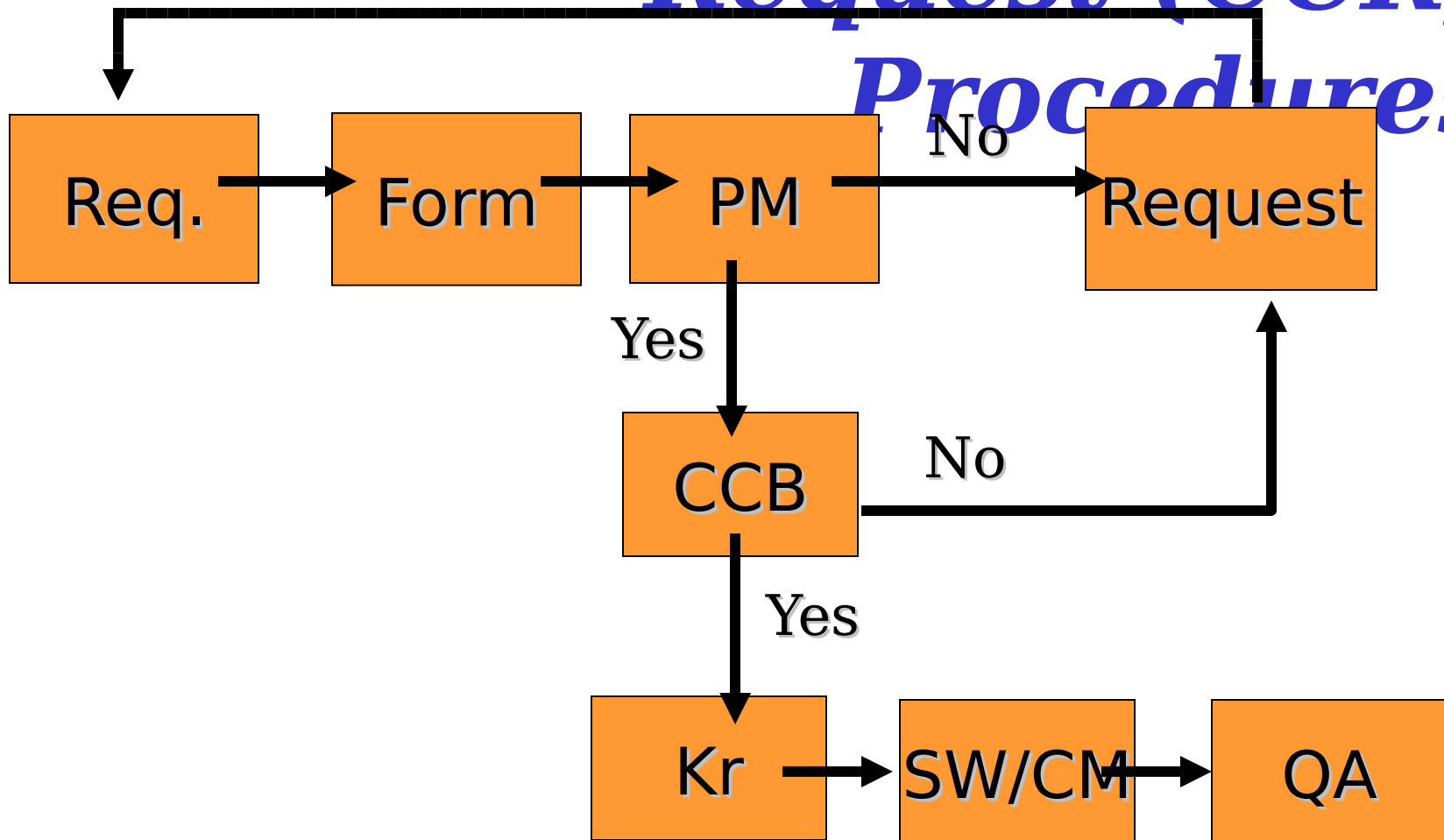
MAJOR CHANGE

- **PMO IPT
(Chair)**
- **SW/CM IPT**
- **QA IPT**
- **Contracts IPT**
- **User Rep.**

MINOR CHANGE

- **SW/CM IPT
(Chair)**
- **QA IPT Rep.**
- **PMO IPT Rep.**
- **Contractor
Rep.**

Configuration Change Request (CCR) Procedures



QA / QC IPT Duties and Responsibilities

- **Initial test and evaluation using Likert Scale**
- **Review and update TEMP**
- **Test all new/modified pages**
- **Review and update QA / QC report**
- **Test on-line training and maintenance modules - document results**
- **All testing accounted for in test log**

QA /QC IPT

IOC Status and Survey

Results

- **Conducted initial evaluation in conjunction with Commercial QA/QC IPT**
- **TEMP updated**
- **Likert Scale Score for Last Quarter: 3.8**

QA / QC IPT

Test Parameters from TEMP

| <u>Technical Parameter</u> | <u>Objective</u> | |
|----------------------------|------------------|------|
| <u>Threshold</u> | | |
| Spelling & Grammar | 100% | |
| 95% | | |
| error free | | |
| All links, images, etc. | 100% | |
| 95% | | |
| error free | | |
| Site viewable from | 100% | 100% |
| Multiple PC's | | |
| Download speed/page | 10 on / 15 off | |
| 20 sec | | |
| Top level page - | Architectural | 26 |
| Hierarchical | | |

QA / QC IPT Process

- **CM IPT notifies when page is ready to test**
- **QA/QC IPT rep acknowledges receipt & logs**
- **DT - contractor leads - does testing on COM account**
- **Page uploaded to public site by CM**
- **OT - government leads - does testing on public site, notifies CM of any errors**
- **Repeat loop, as needed**
- **FOT&E conducted for new/modified pages**
- **Write QA/QC report**

QA / QC IPT Risk Management

| <u>Risk</u> | <u>Level</u> | |
|------------------------------------------------------|---------------------|--------------------------|
| <u>Countermeasure</u> | | |
| Personnel Shortfalls Ratio, max comm. | High | 1:3 |
| Tight Schedule Realistic estimates | High | |
| Hardware Problems time in | Med | Add Flex est. |

QA / QC IPT Time Analysis

REQUIREMENT REQ.

IPT TIME

| | |
|--------------------------------------------------------|------------------|
| Initial T&E using Likert Scale Complete | 16 hrs. - |
| Review and update TEMP hrs. | 12 |
| Test all new/modified pages | 16 hrs. |
| Review and update QA / QC report hrs. | 16 |
| Test on-line tng. and maint. modules | 29 |

FOC Requirements

- Incorporate Group Photographs
- Present Actual Cost and Schedule Information
- Use Actual Cost and Schedule Information to Calibrate CoCoMoII/REVIC Models
- Test Online Training and Maintenance Module
- Timecard spreadsheet
- Time estimates for each work element

FOC Requirements

Incorporate Group Photographs

- Acquire Digital Camera
- Plan to Take Individual Photos and Create Bio Page for Current Project
- Archive Last Project Group

FOC Requirement (Continued)

Present Actual Cost and Schedule Information

- Estimate of Time Required against actual
 - BCWS/ BCWP / ACWP

FOC Requirement (Continued)

- We have finalized method for gathering time/cost data
- Data from earlier classes have been used to derive some preliminary estimates

Issues

- Requirements clarity
 - ORD format would be beneficial, would add realism and clarity
 - Greater effort to coordinate with User
- Three groups vying for the same web site
 - Coordination with Group A and Distance Learning
 - PEO direction
- Living the learning curve
 - AAR

C-SAWS (V7.2) Critical Design

Review

15 February 2001

